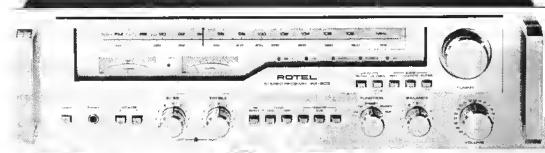
OWNERS MANUAL

SERIAL NUMBER

WRITE YOUR SERIAL NUMBER HERE.
THE NUMBER IS LOCATED NEAR THE
NAME PLATE ON THE UNIT'S REAR PANS.



RX-803 STEREO AM/FM RECEIVER

WARNING:

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

Quality. Uncompromised.

ROTEL

THE ROTEL CO., LTD.

1-36-8 Ohokayama, Meguro-ku, Tokyo, Japan

INSTALLATION

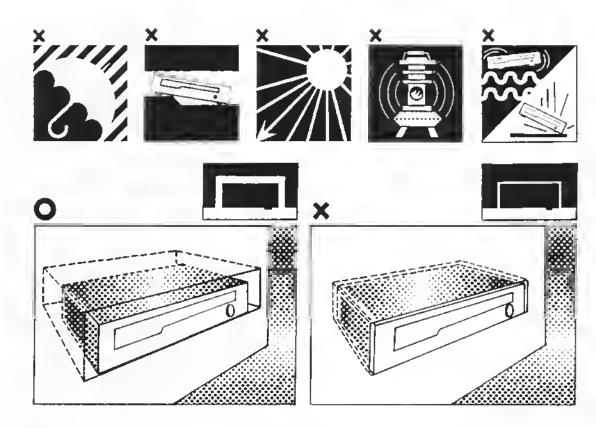
BEFORE ENJOYMENT

For safety sake keep in mind the following cautions:

- Do not connect the unit to the AC power line without speakers, turntable and other auxiliary components connected beforehand.
- 2. Make sure also that the power switch is OFF and the volume control is set at minimum before plugging in the power cord to a wall outlet.
- 3. Furnished Convenience AC Outlet
- a) Do not insert or remove plug from any convenience AC outlet supplied on the appliance while the appliance is connected to power. Also do not insert foreign object, other than a proper plug, into the convenience AC outlet.
- b) Do not connect other appliance(s) to convenience AC outlet if its/their total power consumption exceeds maximum rated watts labeled next to the outlet.

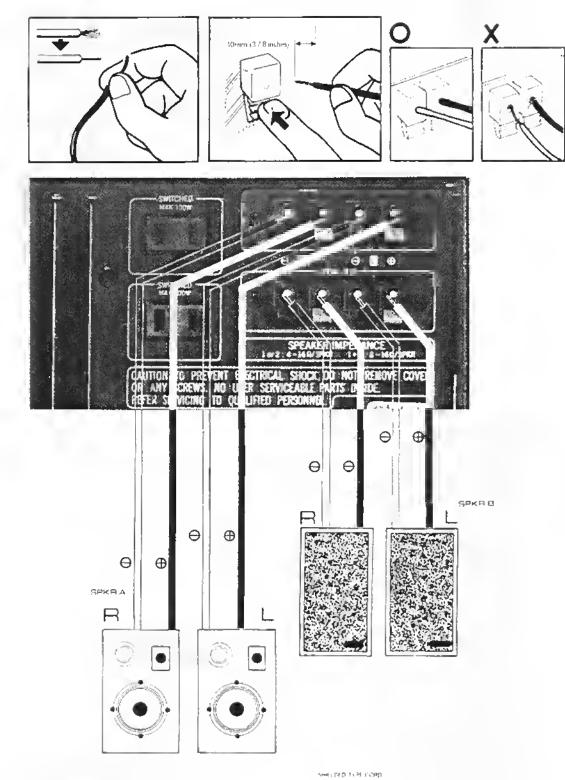
Sound will not come out immediately after the power switch is pushed on due to use of the protection relay against sudden loud noise.

LOCATING THE UNIT

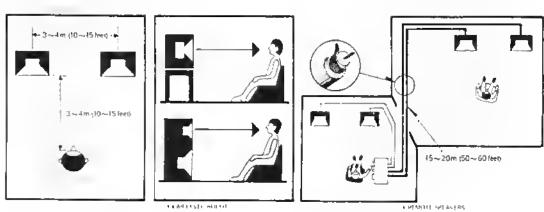


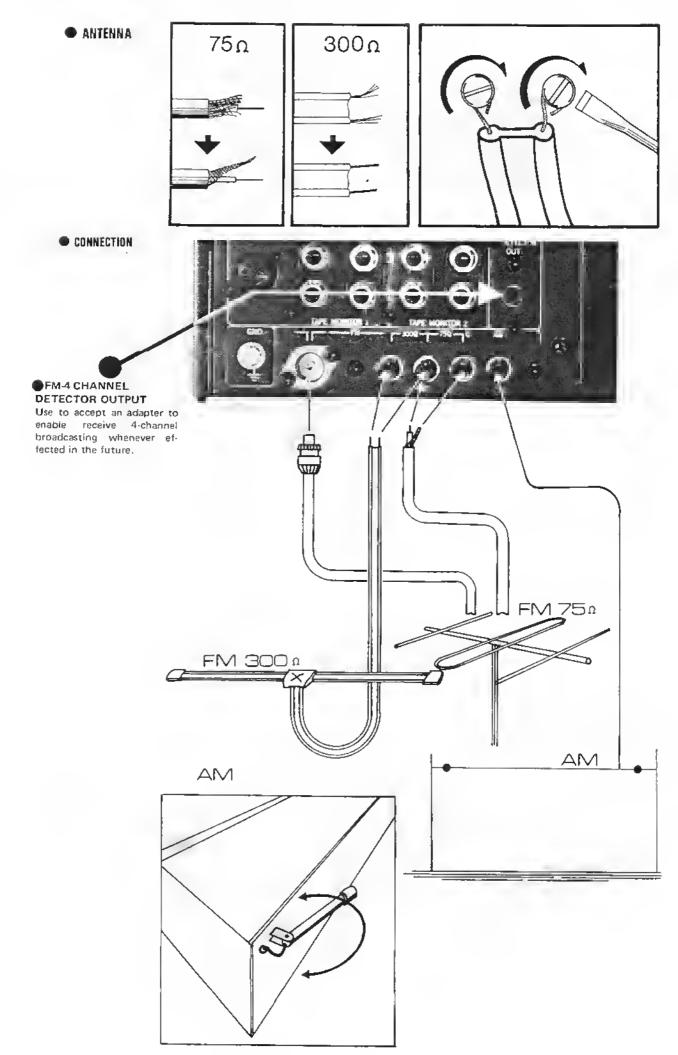
SPEAKERS

■ Impedance — 8e sure to use speakers rated at 8 ohms or higher up to 16 ohms. In the event your speakers are rated at 4 ohms or lower than the desired 8 ohms, you may operate with one pair of such type of speakers at a time but never two pairs of speaker systems simultaneously. This measure is to prevent any severe overload and distortion from happening due basically to too low impedance to draw excessively high current. When you are uncertain on your speakers rating values, consult with the dealer or store you purchased.



SPEAKERS PLACEMENT





AC OUTLET

■ NOT AVAILABLE FOR U.K., SCANDINAVIA AND SOME OTHER COUNTRIES

The convenient AC outlets on the rear panel provide power to components you may wish to connect to the unit. Note an outlet marked SWITCHED has power controlled by the power switch of the unit, and one marked UNSWITCHED has power always available not affected by the power switch.

Caution: Do not connect components whose total power consumption exceed rated maximum wattage marked beside the AC outlet.

POWER SUPPLY

For power the unit requires the normal house AC electrical current (wall outlet). Before connecting up ensure that the unit has a suitable plug fitted. If in any doubt about connecting to the power source, consult a qualified electrician.

EXCLUSIVE NOTE FOR U.K.

If your unit comes with a 3-core cable without a plug, make certain five, neutral and (where appropriate) earth leads are connected to the proper terminals.

Check that the terminals are screwed down firmly and no loose strands of wire are present.

WARNING: THIS APPARATUS MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

GREEN/YELLOW : EARTH
BLUE : NEUTRA

NEUTRAL.

BROWN : LIVE
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured

makings identifying the terminals in your plug proceed as follows.

The wire which is coloured GREEN/YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \pm , or coloured GREEN/YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLUE or BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

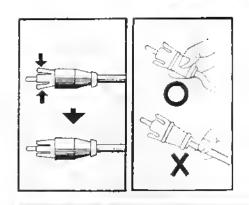
The apparatus must be protected by a 3 Amp fuse if a 13 Amp (BS 1363) plug is used. If another type of plug is used a 5 Am fuse or lower must be used, either in the plug or adapter or at the distribution board.

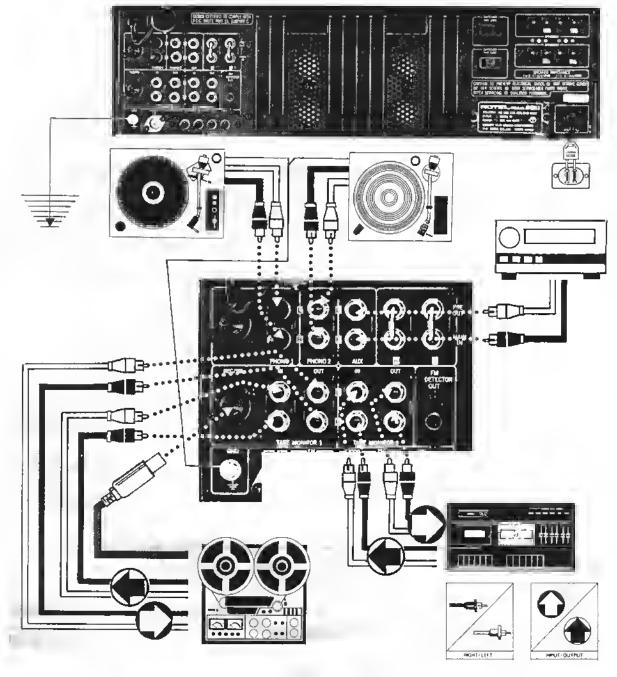
PRE AMP OUT AND MAIN AMP

Note: Do not remove the pair of U-shaped jumper pins connecting PRE AMP OUT and MAIN AMP IN when in normal use.

These receptacles are intended for use when you wish to operate pre-amplifier/tuner and main-amplifier sections of this unit separately such as connecting another pre-amplifier or main-amplifier, or to connect appropriate auxiliary component such as audio equalizer in between. Simply disconnect the jumper pins and follow the instruction supplied with such component.

COMPONENTS CONNECTION









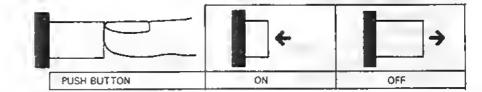


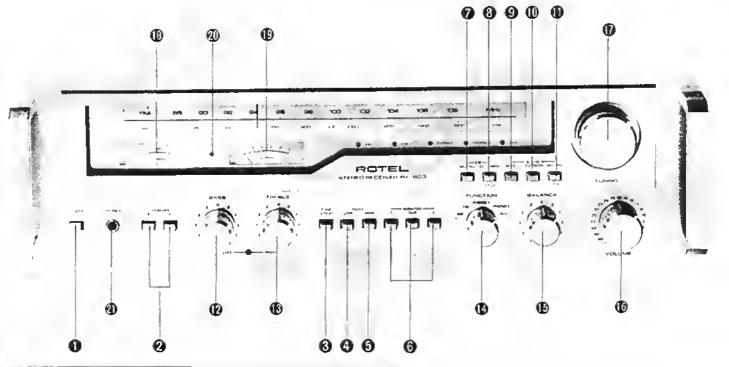










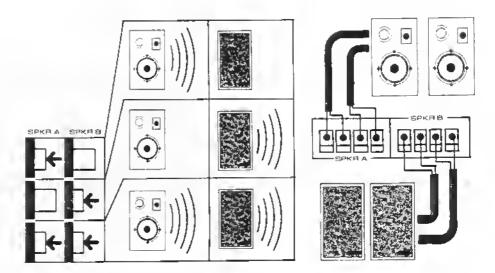


POWER SWITCH — performs the function as its name denotes.

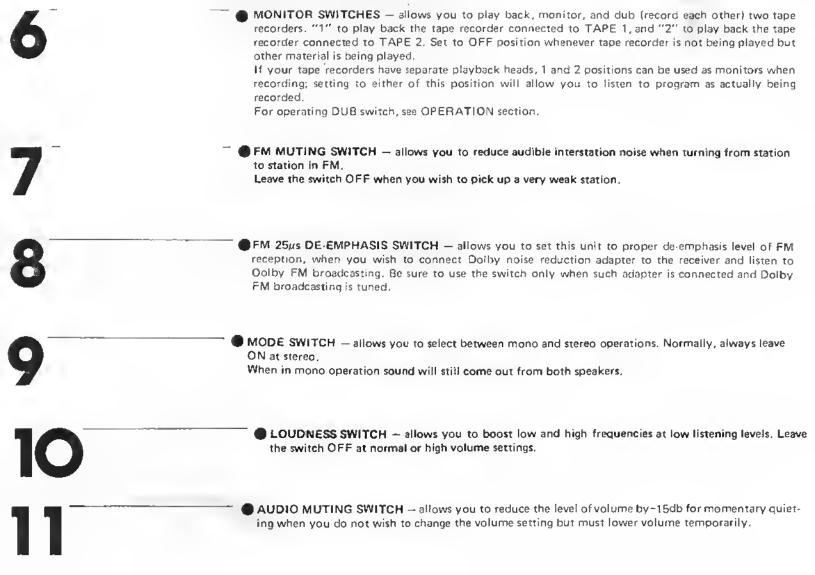
It supplies power to the unit and to any switched AC outlets. When the switch is ON the diel light will be illuminated.

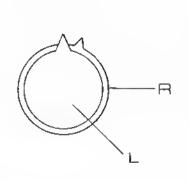
Note: Sound will not come out for about 7 seconds due to the relay protection circuit used to prevent loud pap noise when the switch is pushed ON.

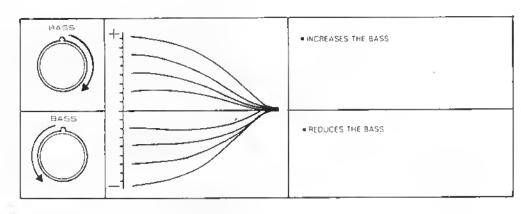
SPEAKER SWITCHES



- TONE DEFEAT SWITCH permits you to deactivate the tone control circuit to provide an absolutely linear response when in ON position.
- LOW FILTER allows you to reduce the low frequency response of your unit whenever you wish to reduce annoying record and tape rumbles, etc..
- HIGH FILTER Allows you to reduce high frequency interference whenever you wish to eliminete ennoying record scretches, tape hiss, FM background noise, etc.
 Normally, however, keep this switch OFF.

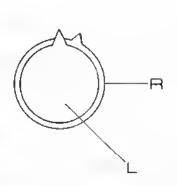


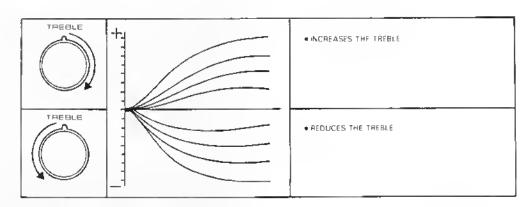




13

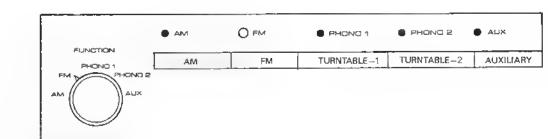
TREBLE CONTROL





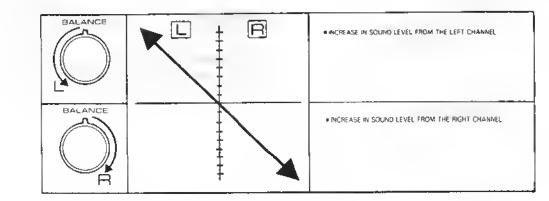
14

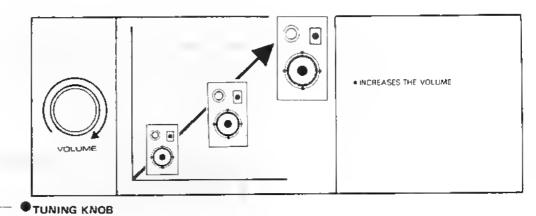
• FUNCTION SELECTOR SWITCHES

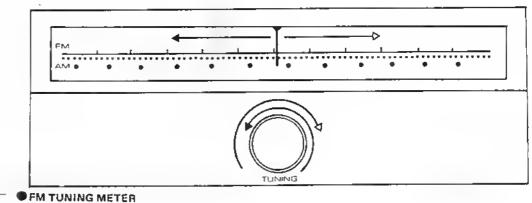


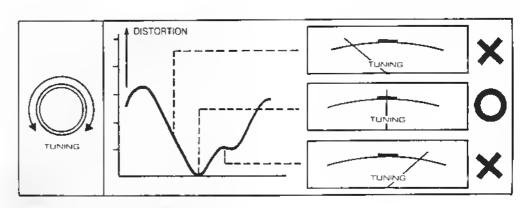
15

BALANCE CONTROL

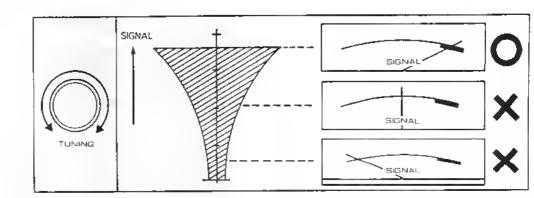








SIGNAL STRENGTH TUNING METER



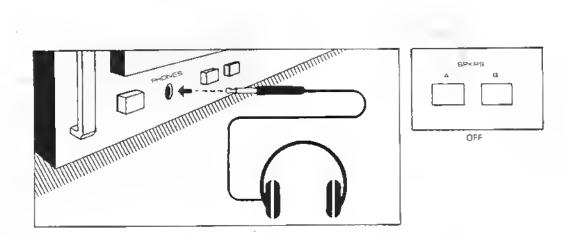
STEREO INDICATOR LIGHT — automatically lights up on the dial glass to visually indicate whenever an FM stereo broadcast is tuned.

- LUZ INDICADDRA DE ESTEREO Automaticamente se enciende en el dial para indicar visualmente cuando una estación o programa en FM estereo está en el aire.
- INDICATORE LUMINOSD DELLO STEREO Si accende automaticamente per indicare visual-

21

HEADPHONES RECEPTACLE

tection circuit for power circuit.)

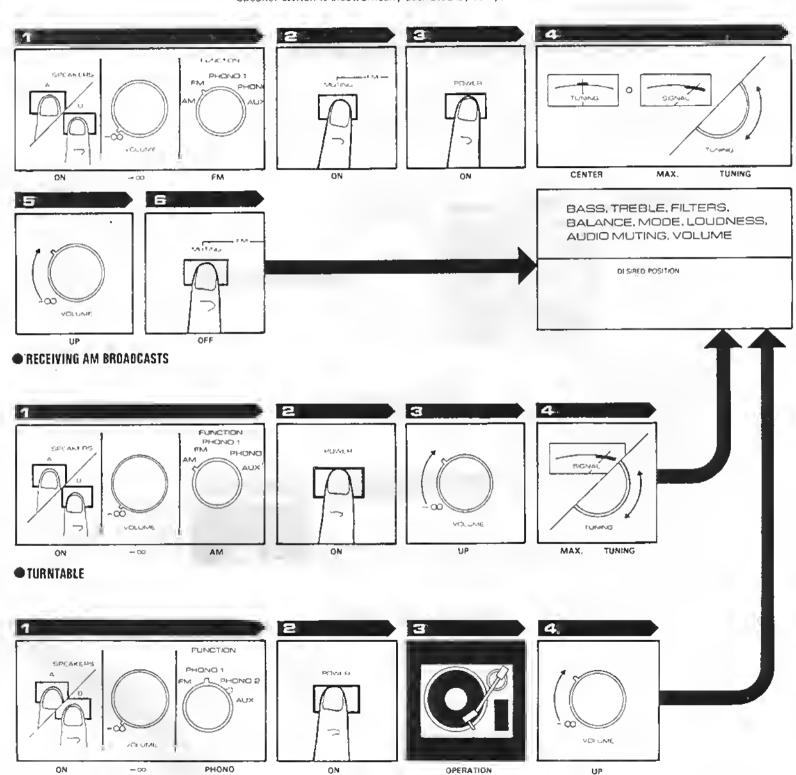


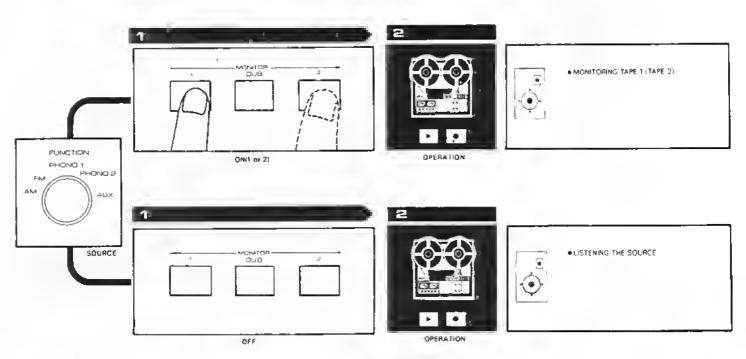
OPERATION

Having made all connections according to the preceding instructions and become familiar with the functions of the unit, you are ready to operate the quipment. Apply power by plugging into the power source and pushing in the POWER switch.
Sound will not come out immediately after the POWER switch is pushed on. In roughly 3 seconds upon switching on POWER, the dial scale will gradually brighten until the relay is automatically set ON and the normal lighting is attained. (This phenomenon is caused by the action of the surging pro-

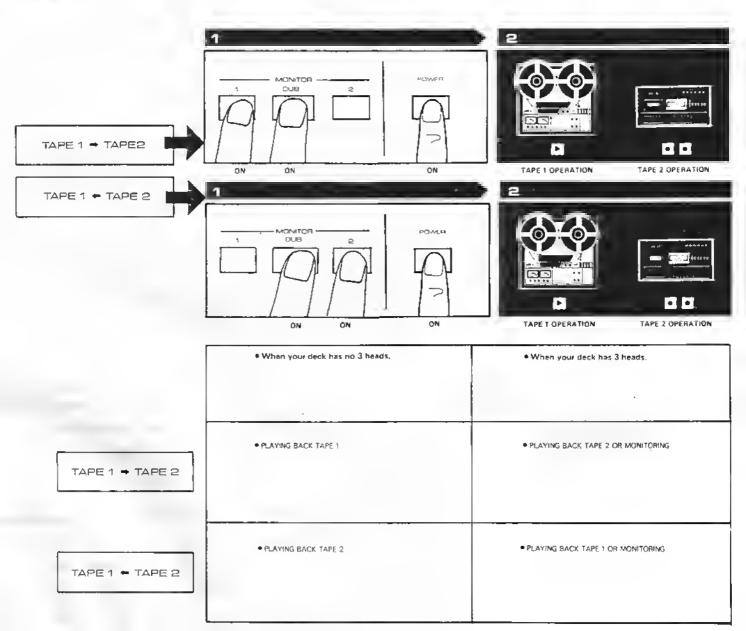
RECEIVING FM BROADCASTS

About 7 seconds after switching on POWER; Speaker switch is electronically activated by relay.





DUBBING .



PROTECTION

This equipment is protected by a special electronic resettable protection circuit and the fuses installed inside the chassis. If the unit fails to operate when plugged in and turned on or if it suddenly becomes completely inoperative while playing (i.e. one or both speakers are silent regardless of speaker switchs and function selector control position), the protection circuit is probably activated due to an overload condition such as shorting by stranded speaker wires at the speaker terminals. Once the fault is found and corrected, the protection circuit will be deactivated by reserting and the unit will work.

Caution: If the unit does not operate, or if it becomes inoperative within a short time, consult your

AUM AND NOISE

In any high fidelity installation, hum may be caused by the interconnection of a record player, tuner and amplifier, and speakers as result of the cables, different grounds or locations of components. If hum is experienced with your unit, disconnect everything but the speakers from the unit. If the hum persists, reverse the power plug at the power source.
Plug in the record player and if hum or howling appears, move the record player away from the

speakers as much as possible.

Note hum may also be induced by defective connection cables or by running these cables too close

to a strong AC field.

When your unit picks up noise during the reception of broadcasts, causes are mostly due to external

objects such as fluorescent lamps and house appliances using motor or thermostat, or others that may induce the noises.

Either relocating the unit away from the noise sources or using an improved outdoor antenna may readily solve the problem.

In the event you cannot find the causes, consult your dealer or a qualified electrician.

VOLTAGE SELECTION

Not available for U.K., Canada and Scandinavia

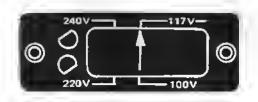
TEMPTING TO MAKE THIS CHANGE.

dealer or a ROTEL service center.

The receiver is a variable voltage equipment that can run on 100V, 117V, 220V or 240V power supply. Your unit comes already preset at the proper voltage for use in your area, however, if you move to an area where the power supply voltage is different, the voltage setting can be manually changed.

BE SURE THAT YOUR UNIT IS NOT CONNECTED TO THE POWER SOURCE REFORE AT-

To change the voltage setting, remove the name plate on the rear panel and locate the VOLTAGE SELECTOR (see figure left). Pull up the voltage selector plug which has a white arrow on its top. Reinsert the plug to the selector base so that the head of the arrow lines up with the pointer line of the voltage you desire.



POWER AMPLIFIER SECTION:		FM TUNER SECTION
Continuous Power Output:		Usable Sensitivity 10.4d
70 watts* per channel, min. RMS both channels		Usable Sensitibity (1HF '5B) 1.5μ\
		50dB Quieting Sensitivity: 15.2d
driven at 8 ohms from 20 to 20,000Hz		Signal-to-Noise Ratio (at 65dBf):
with no more than 0.2% total harmonic distortion.		
		Stereo 65dB
Total Harmonic Oistortion	No more than 0.2%	Oistortion (at 65dBf):
(20 to 20,000Hz, from AUX)	(continuous rated power output)	100Hz
	No more than 0.08%	1kHz 0.1%
	(1 watt per channel power output,	
	8 ohms)	Frequency Response 30Hz
Intermodulation Oistortion	No more than 0.2%	Capture Ratio 1,5dB
50Hz: 7,000Hz=4:1	(continuous rated power output)	Alternate Channel Selectivity 75dB
from AUX)	No more than 0.1%	Spurious Response Ratio 90dB
	(1 watt per channel power output,	Image Response Ratio B5dB
	8 ohms)	IF Response Ratio 95dB
Frequency Response		AM Suppression Ratio 60dB
	+0dB, -1dB	Stereo Separation 43dB
	(1 watt per channel power output,	30dB
	8 ohms)	AND TUNIOR OF STREET
Input Sensitivity/Impedance	0,775V/50 Kohms (MAIN AMP IN) AM TUNER SECTION
Oamping Factor	50 (20 to 20,000Hz, B ohms) ±10%	
		12.5 μ
PREAMPLIFIER SECTION		AMEGORA A AMEGORA
Input Sensitivity/Impedance:		MISCELLANEOUS
PHONO 1		Power Consumption. 520 w
PHONO 2		Oimensions (Overall) 490(V
AUX	150mV/50 Kohms	Weight (Net) 14kg
TAPE IN 1		
TAPE IN 2		
TAPE IN 1 (OIN connector)	150mV/50 Khoms	
Overload Level [Maximum Input L	evel] (T.H.O. 0.2%, 1kHz)	NOTE. Specifications and design subject to
PHONO 1		without notice.
PHONO 2	200mV (2.5mV input)	*Measured pursuant to the Federal
AUX	Not less than 5V	Regulation Rule on Power Claims
Output Level/Impedance (5mV PHONO input):		(Applicable to the U.S.A. only)
TAPE OUT 1	330mV/2,2 Kohms	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
TAPE OUT 2	330mV/2.2 Kohms	1
TAPE OUT 1,2	100mV/80 Kohms (DIN connectors	5)
PRE OUT		
Total Harmonic Oistortion		A
5 B	(20Hz to 20,000Hz, 0.775V output	t)
Frequency Response:	2011 15 02011- +0 248	
PHONO		
T Control:	(RIAA Equalization)	
Tone Control:	+10-IB (100U-)	
TREBLE	±1005 (10KH2)	
Filter:	40Hz (12dB/oct)	
H1GH		
Loudness Contour		
	•	
Hum & Noise (IHF, short circuited		
PHONO		
AUX, TAPE IN		
Audio Muting	- 100B	

M TUNER SECTION

Jsable Sensitivity	10.4dBf (1.BµV/300 ohms)
Jaable Sensitibity (1HF '5B)	1.5µV

OdB Ouieting Sensitivity: 15.2dBf (3,2µV/300 ohms) ignal-to-Noise Ratio (at 65dBf): Mono 70dB

100Hz 0.1% (mono), 0.3% (stereo)

1kHz 0.1% (mono), 0.3% (stereo)

6kHz 0.3% (mono), 0.5% (stereo) requency Response 30Hz to 15,000Hz ±0.3dB, = 1dB

12.5µV/m (IHF, ext. antenna)

520 watts (Max.)

tereo Separation 43dB (1kHz). 30dB (30Hz to 15kHz)

ensitivity 250µV/m (IHF, ferrite antenna).

Dimensions (Overall) 490(W) x 145(H) x 410(O) mm

OTE. Specifications and design subject to possible modification without notice.

*Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Claims for Amplifiers.